Bruhat Bangalore Mahanagara Palike (BBMP)

Name of Work :- Comprehensive Development of Roads and Drains at Maruthinagara, Kamakshamma layout, Kondappa layout and A sector in ward no 01, 02 and 04 of Yelahanka division (package No 01)

Sl No	Description of Work	Unit	Estimated Qty as per Schedule B	Executed Qty	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
1	Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry :B: Rubble Stone masonry in cement mortar No. complete as per specifications and directions of the Engineer in charge	Cum	61.56	61.34							
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Lime /Cement Concrete :I: By Manual Means :B: Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. complete as per specifications and directions of the Engineer in charge.	Cum	462.00	462.00							
3	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and directions of the Engineer in charge	Cum	11276.32	11274.95							
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) complete as per specifications and directions of the Engineer in charge.	Sqm	2079.72	2079.72							
5	Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.8%cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications and directions of the Engineer in charge.	Cum	1759.34	1759.34							
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs With 20mm and Down size granite metal coarse aggregate at 0.6%cum and fine aggregate at 0.43cum Machine mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per specifications and directions of the Engineer in charge.	Cum	3346.94	3346.94							

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Sl No	Description of Work	Unit	Estimated Qty as per Schedule B	Executed Qty	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
7	Providing T M T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the Engineer in charge.	Tn	198.85	198.85							
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cuttang ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,trasportation etc , complete as per specifications and directions of the Engineer in charge. (Data Rate)	Sqm	5561.74	5561.74							
9	Suply And Fixing precast concrete Slab 15cm thick including Cost Of reinforcement as per design and drawing materail cost transportation here Charge of Machinary cutting the vertical face to get plain even surface etc complete with all leads and lifts conveynce charges labour charges inclusive of cost of all materials and as per the directions of the Engineer-in-charge of the work	Sqm	420.60	420.60							
10	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,trasportation etc , complete as per specifications and directions of the Engineer in charge.	Sqm	179.89	179.89							
11	Removing and resetting of kerb stones, complete as per specifications and directions of the Engineer in charge.	m	1936.00	1934.70							
12	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.875 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications and directions of the Engineer in charge.	Cum	244.31	244.31							
13	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, trasnportation etc., complete as per specifications and directions of the Engineer in charge	Nos	14955.00	14955.00							
14	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications and directions of the Engineer in charge.	Sqm	3466.40	3465.24							

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Sl No	Description of Work	Unit	Estimated Qty as per Schedule B	Executed Qty	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
15	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and directions of the Engineer in charge.	Cum	279.37	277.93							
16	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Sqm	1591.50	1591.50							
17	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications and directions of the Engineer in charge.	Sqm	1699.50	1699.50							
18	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications and directions of the Engineer in charge	Cum	61.82	61.24							
19	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and directions of the Engineer in charge.	Cum	216.06	216.06							
20	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complete as per specifications and directions of the Engineer in charge	Sqm	945.90	943.13							
21	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and directions of the Engineer in charge	Sqm	3965.96	3965.03							
22	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG10 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications and directions of the Engineer in charge.	Cum	198.30	198.18							

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Sl No	Description of Work	Unit	Estimated Qty as per Schedule B	Executed Qty	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
23	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Sqm	18172.88	18172.88							
24	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications and directions of the Engineer in charge.	Sqm	18172.88	18172.88							
25	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications and directions of the Engineer in charge.	Cum	727.31	727.31							
26	IGSRRB M800-13 Road Making with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	748.88	748.41							
27	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and directions of the Engineer in charge.	Cum	254.93	254.93							

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Sl No	Description of Work	Unit	Estimated Qty as per Schedule B	Executed Qty	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
28	Road markers/ Road stud , Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nils and using epoxy resin based adhesive as per manufacture's recommendation and complete as per specifications and directions of the Engineer in charge.	Cum	434.00	433.00							

Planned

Progress

Contractor representative

Assistant Engineer

Consultant representative

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Assistant Executive Engineer